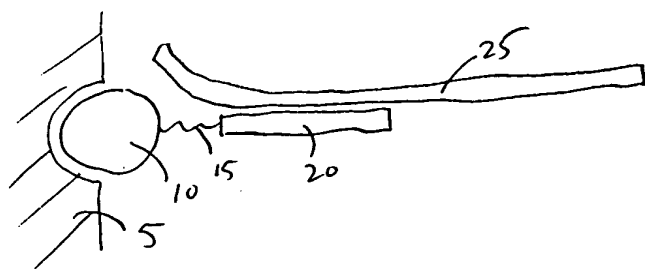
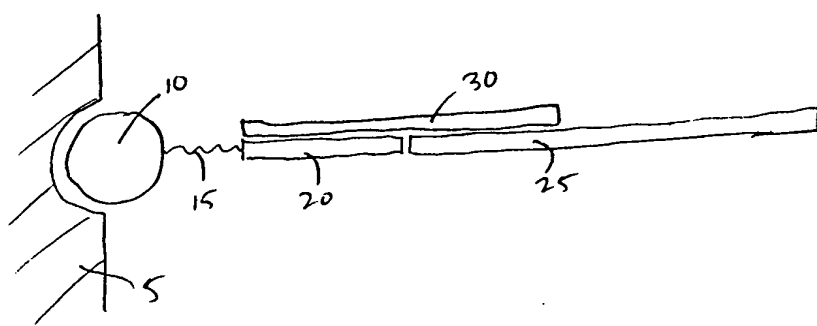


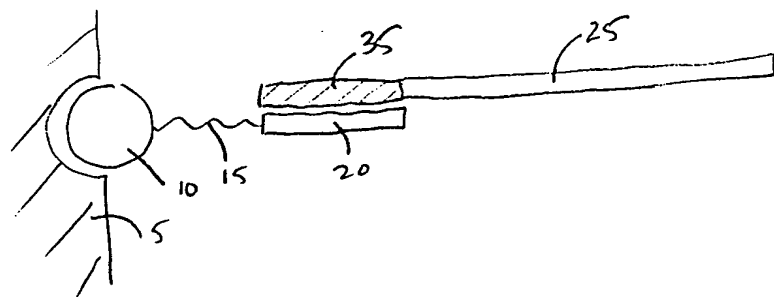
000240" E66E960



A

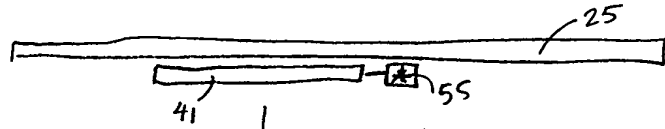
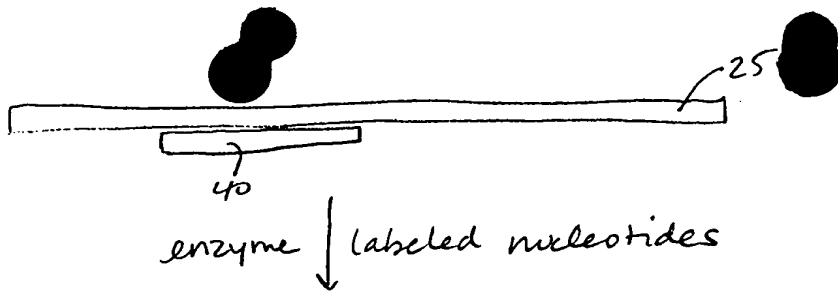


B

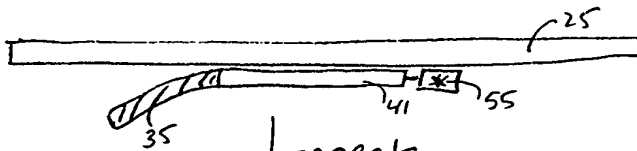
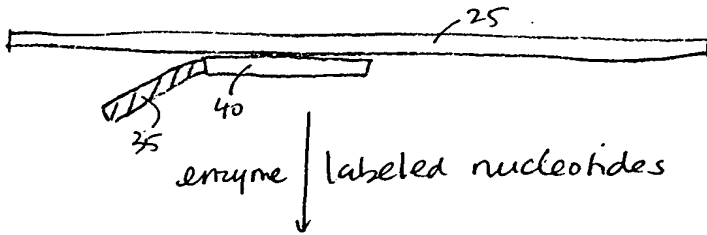
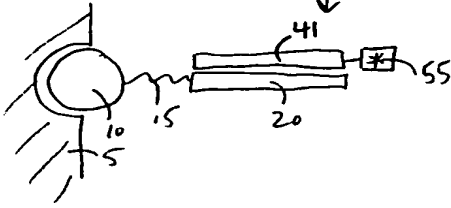


C

Fig 1



repeat
↓
add to array



repeat
↓
add to array

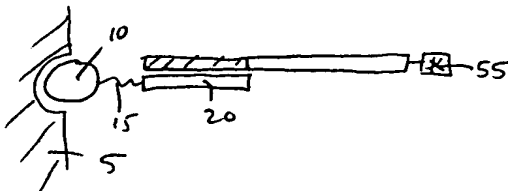


Fig 2A

Fig 2B

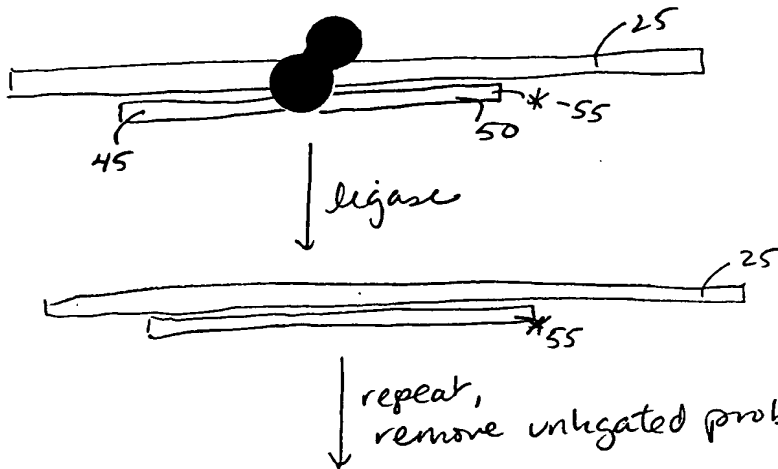


Fig 3A

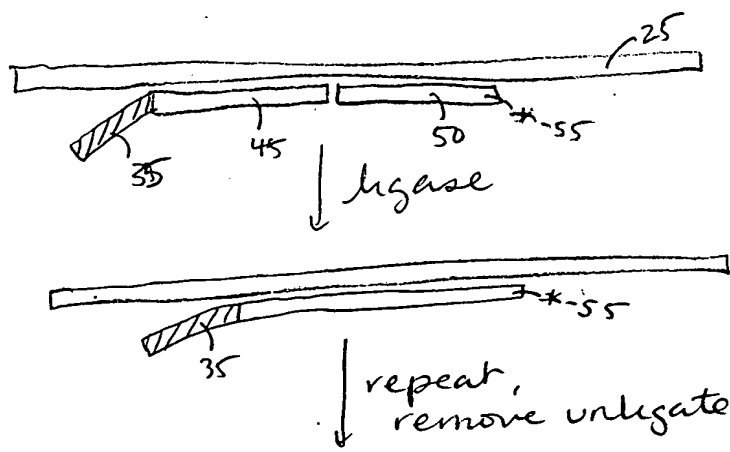
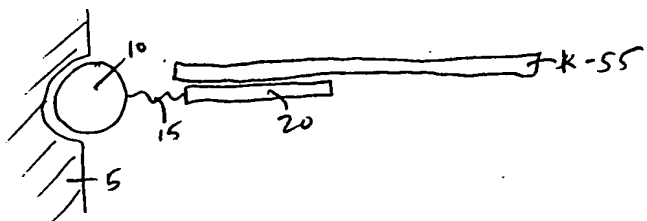
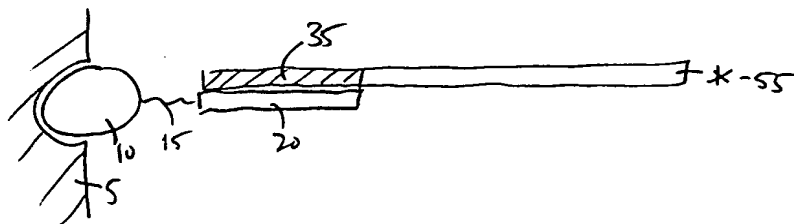


Fig 3B



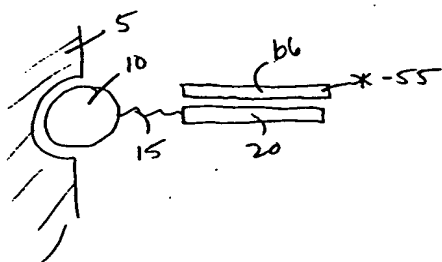
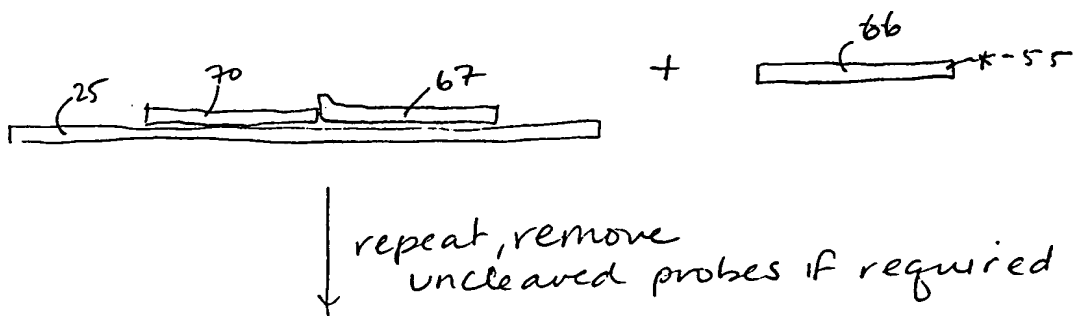
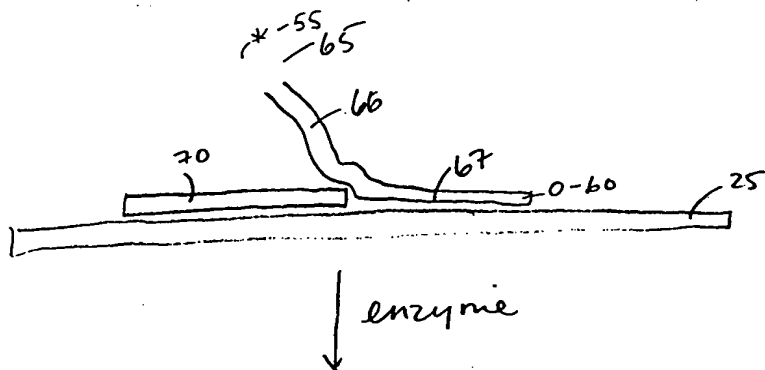


Fig 4

000240" E66E5560

000240" E66E5560

Fig 5A

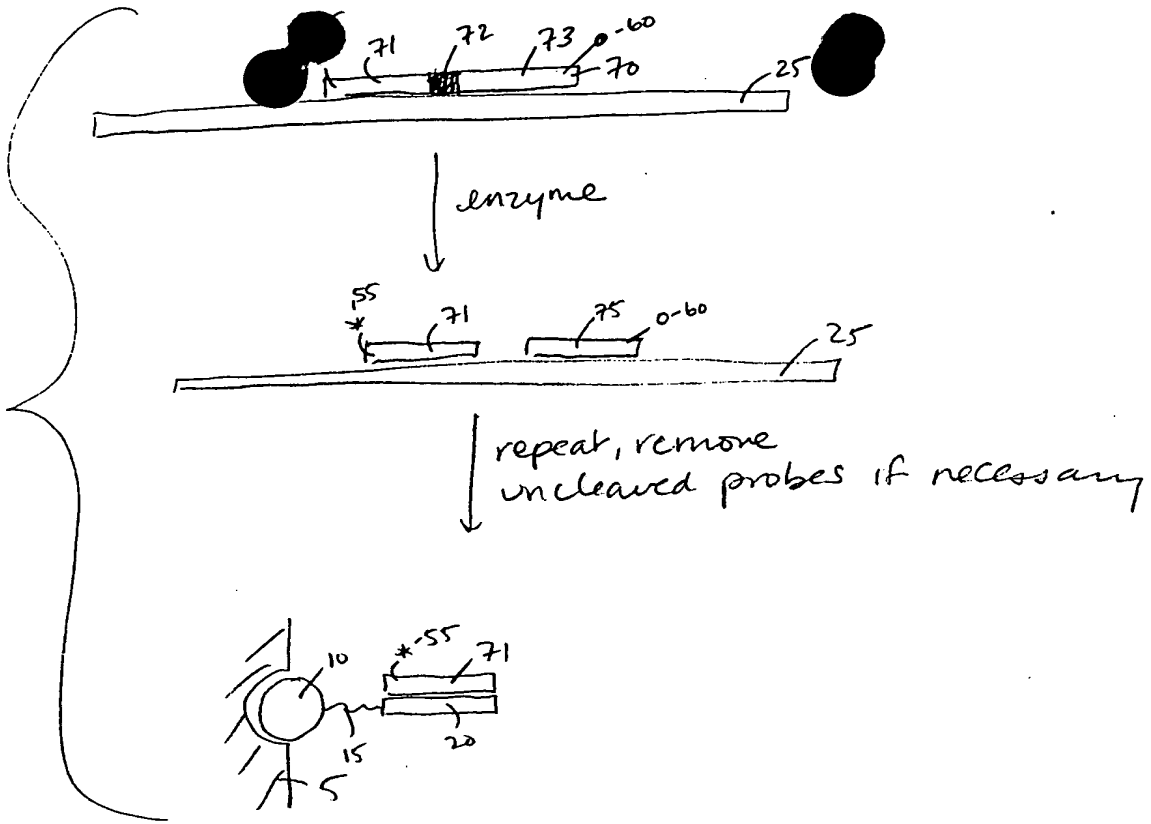
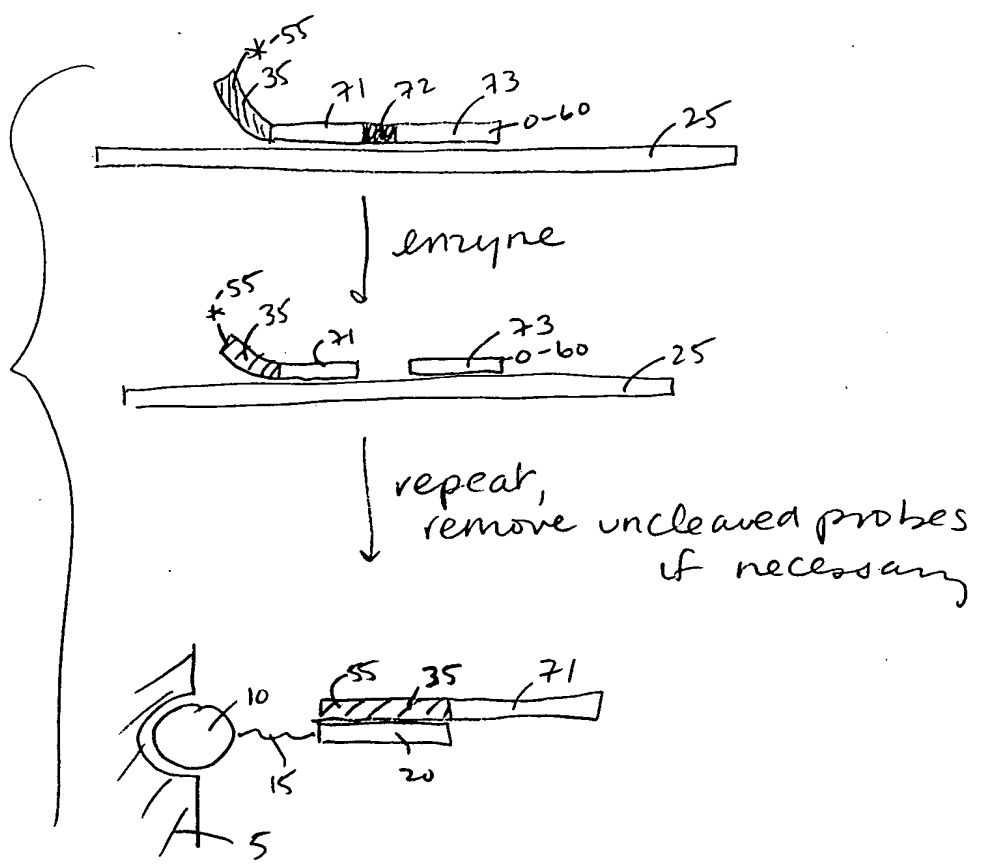


Fig 5B



09553993.042000

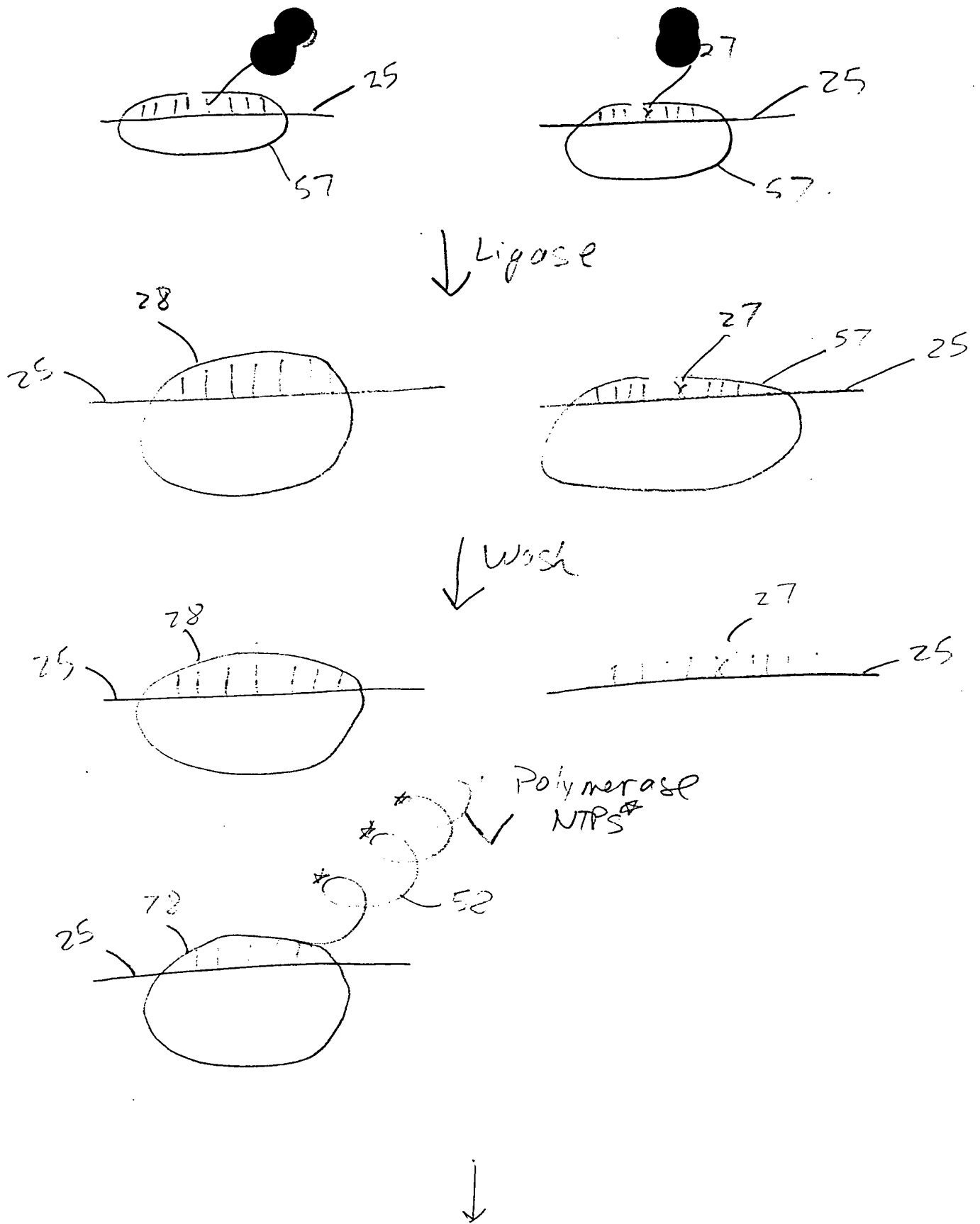


FIGURE 6 (cont)

d)

Restriction
Endonuclease

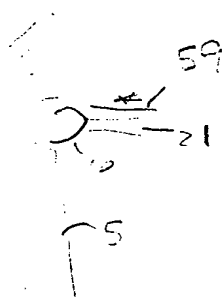
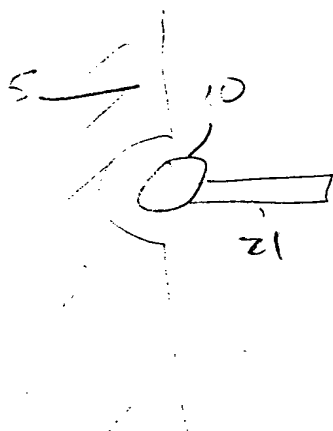
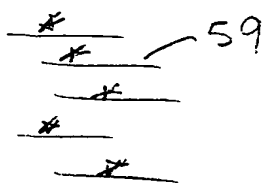
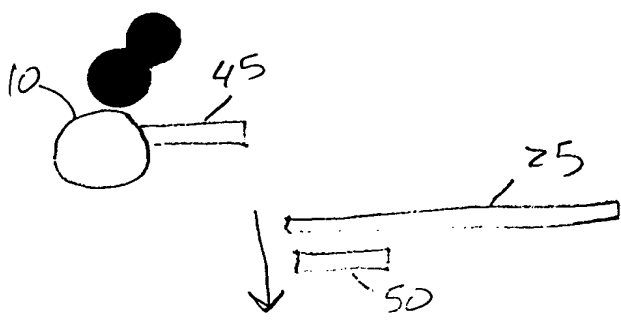


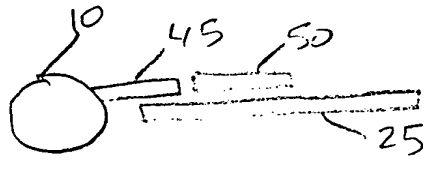
FIGURE 4

000240" E66E9560

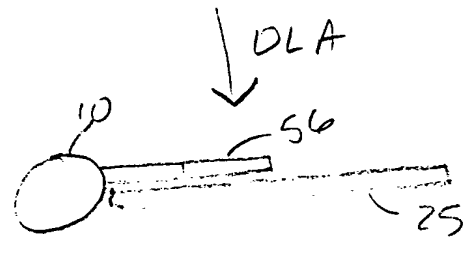
000240" E66E5560



A

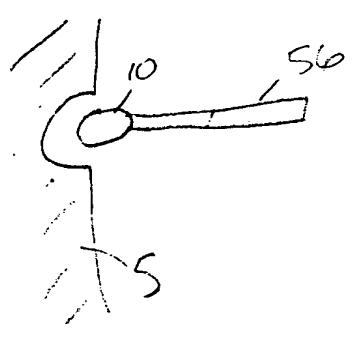


B



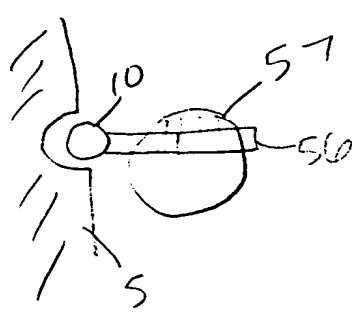
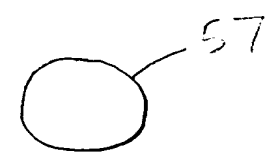
C

Derivative
Array



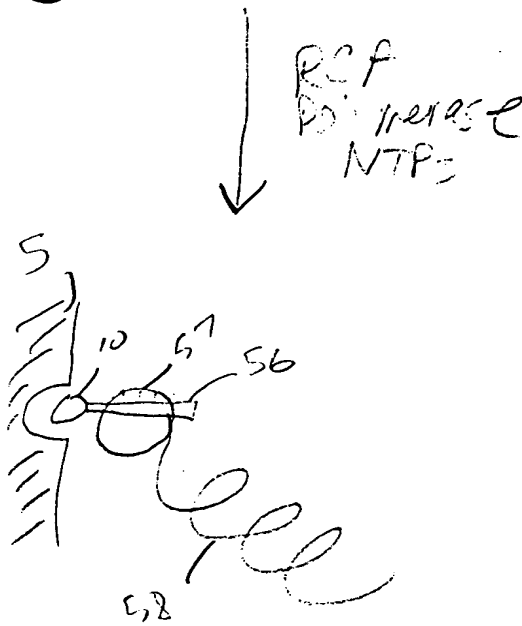
D

RF primer



E

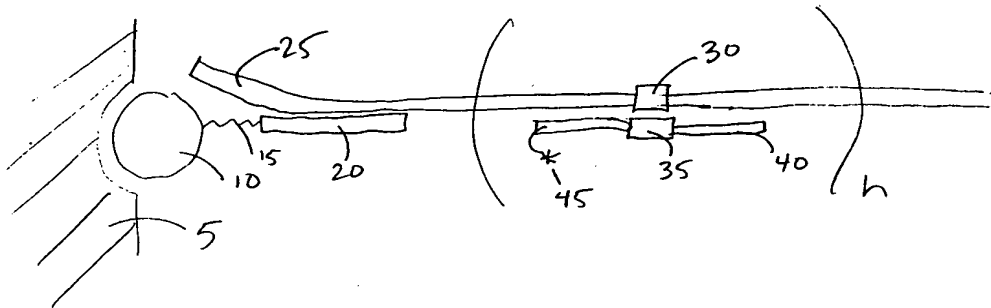
FIGURE 7 (cont)



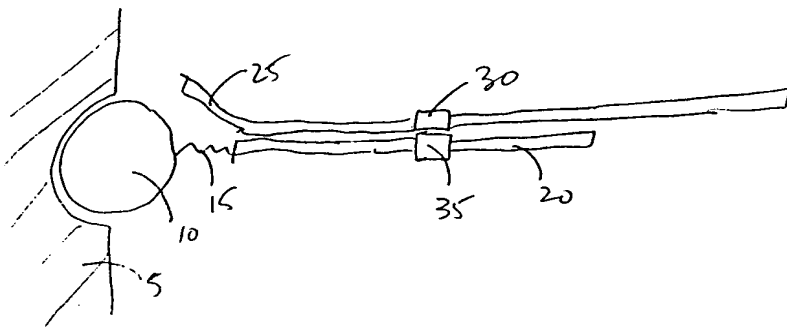
F

FIGURE 7

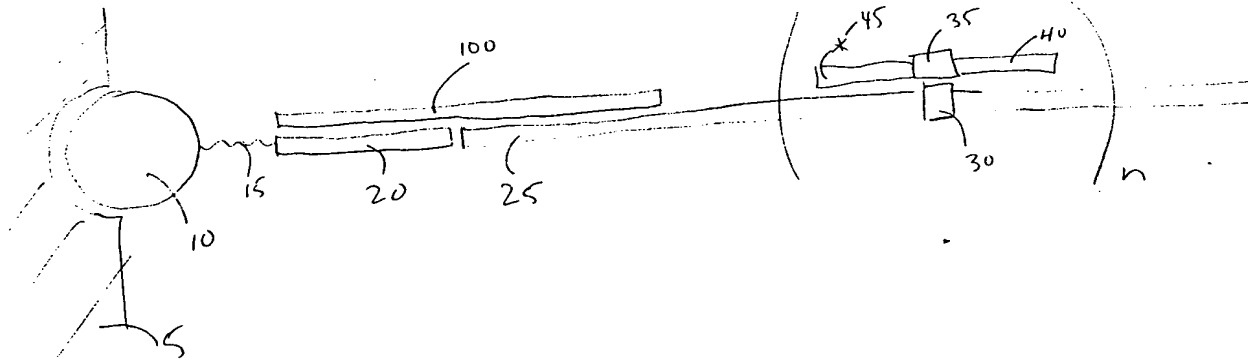
000240" E665560



A



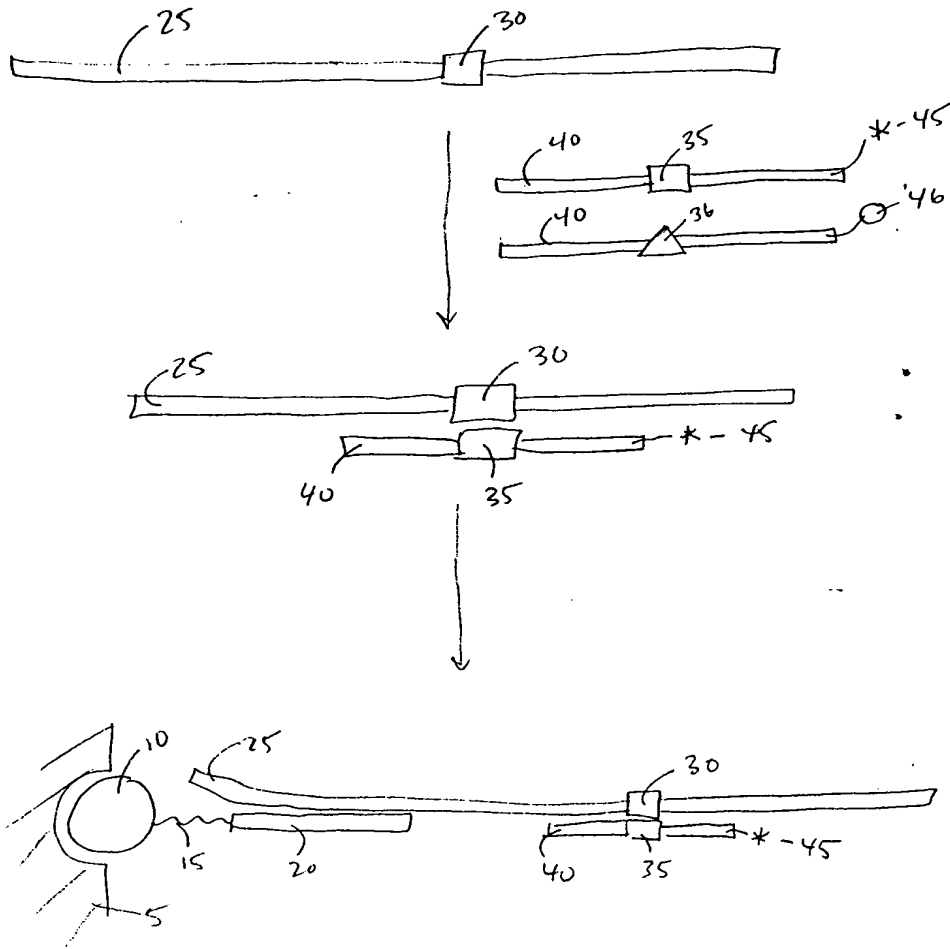
B



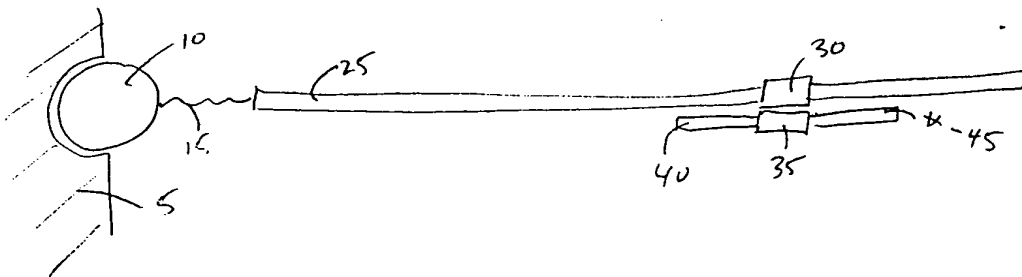
C

FIGURE 8 (cont)

000240" E66E5560



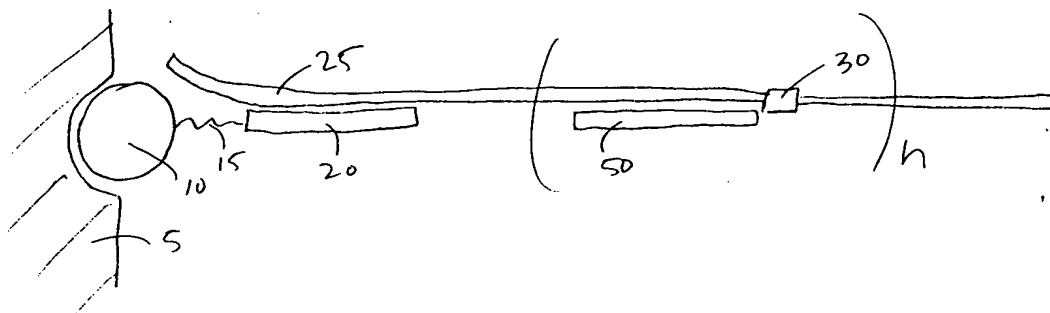
D



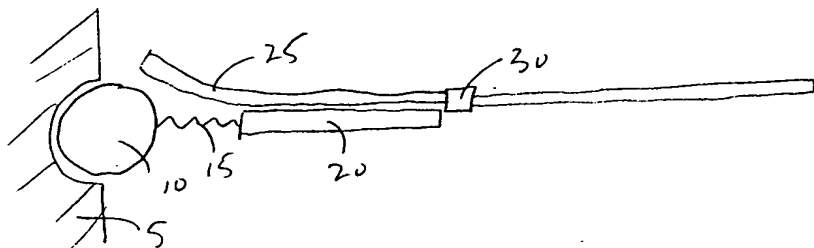
E

FIGURE 8

000240"E66E550



A



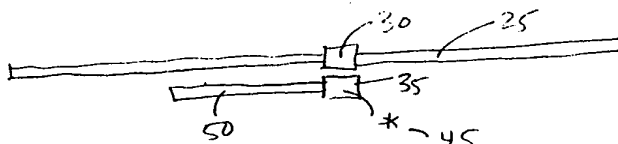
B



labelled NTP



enzyme



optional
removal of
unextended
primers

denature,
add to array

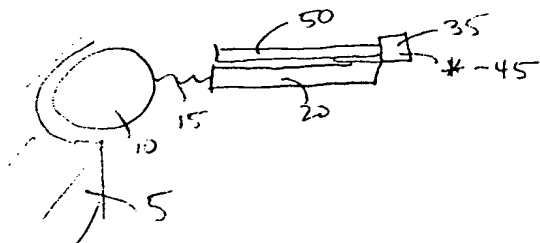


FIGURE 9 (cont)

000240" E66E9560

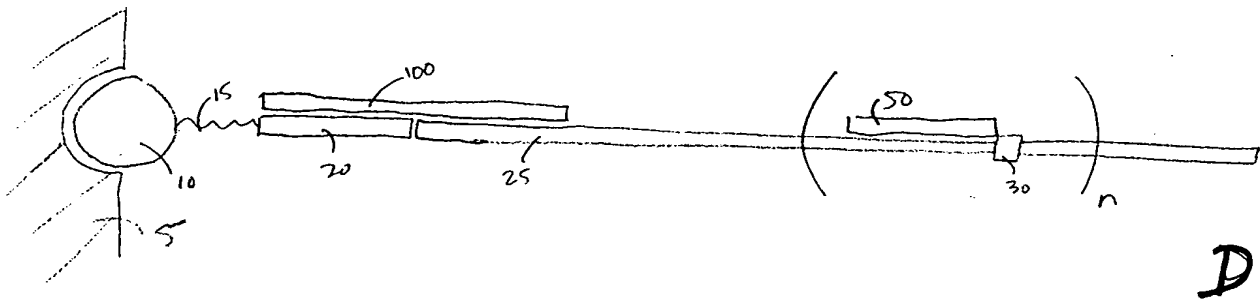
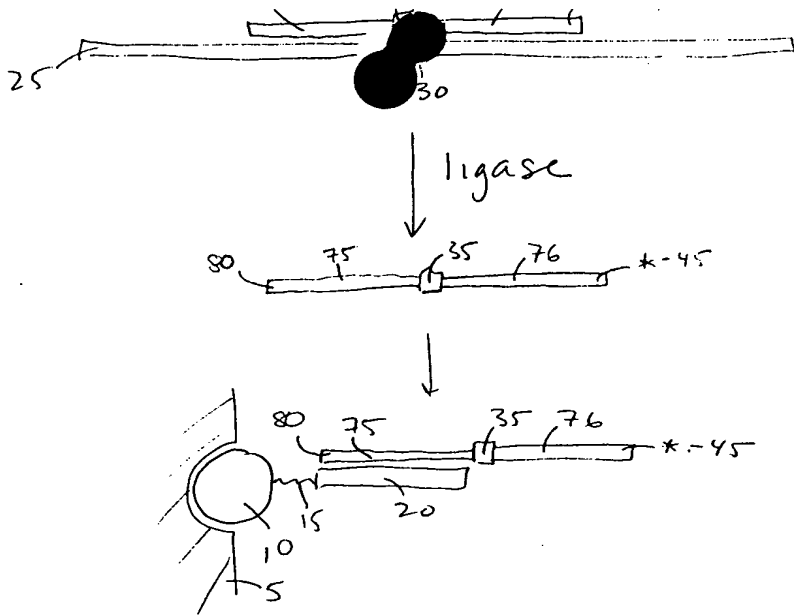
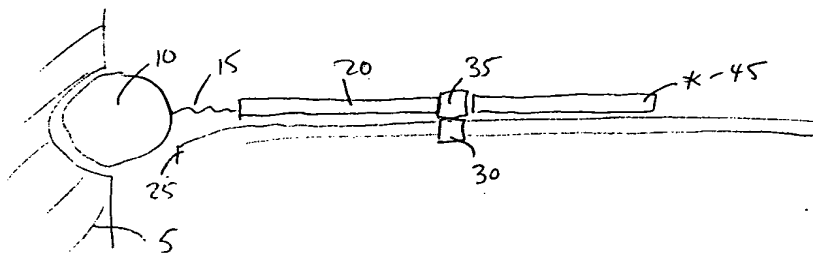


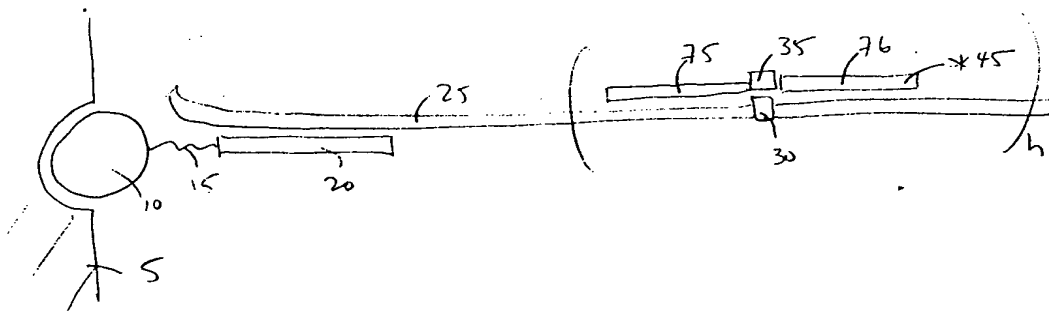
FIGURE 9



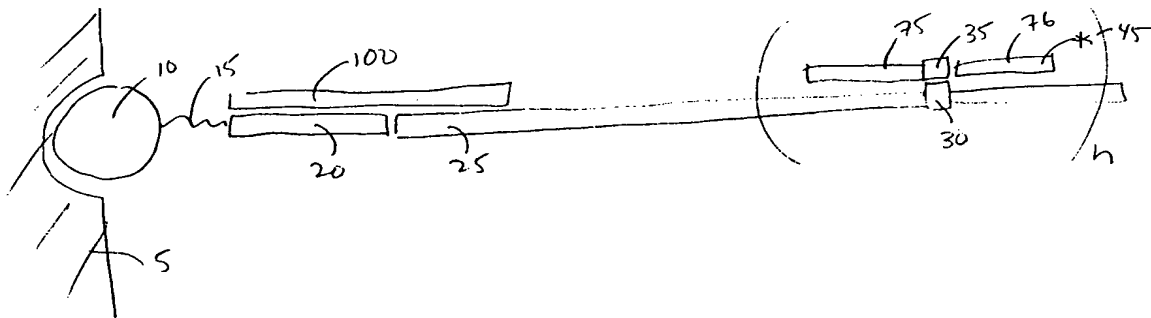
A



B



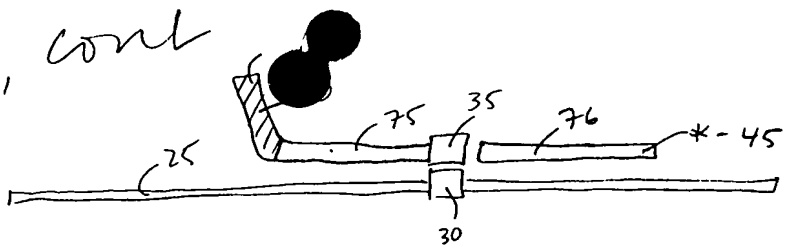
C



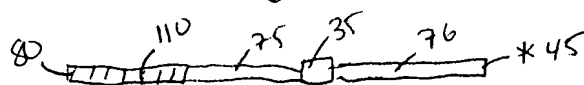
D

FIGURE 10 (cont)

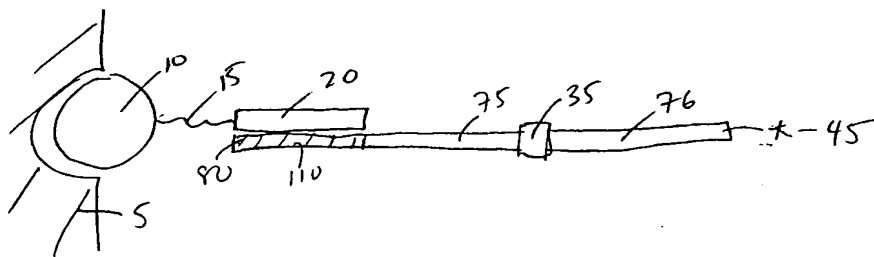
U 3, cont



↓
ligate



↓
to array



E

FIGURE 10

000240" E65E5560

~~SPOLA~~

SPOLA Assay

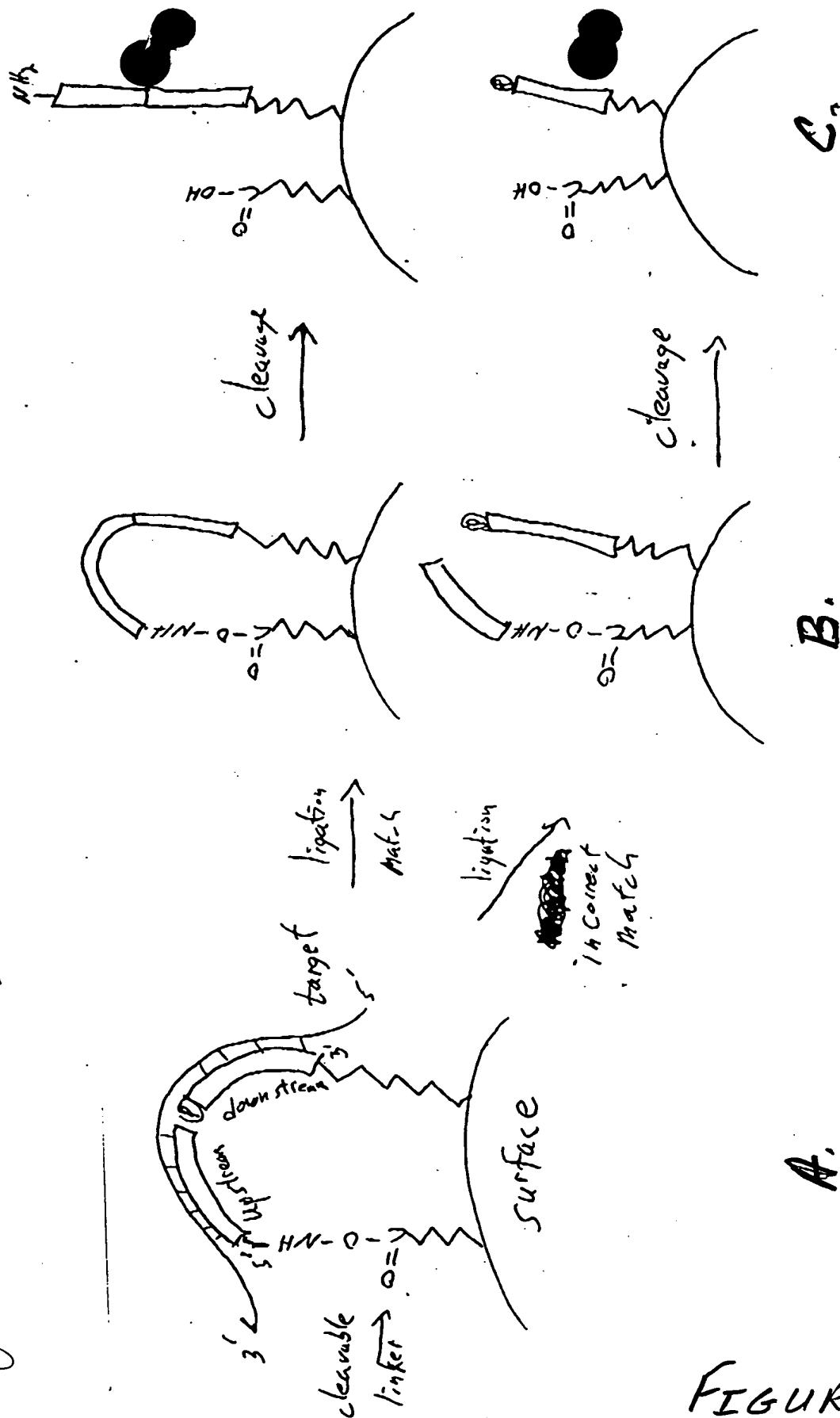
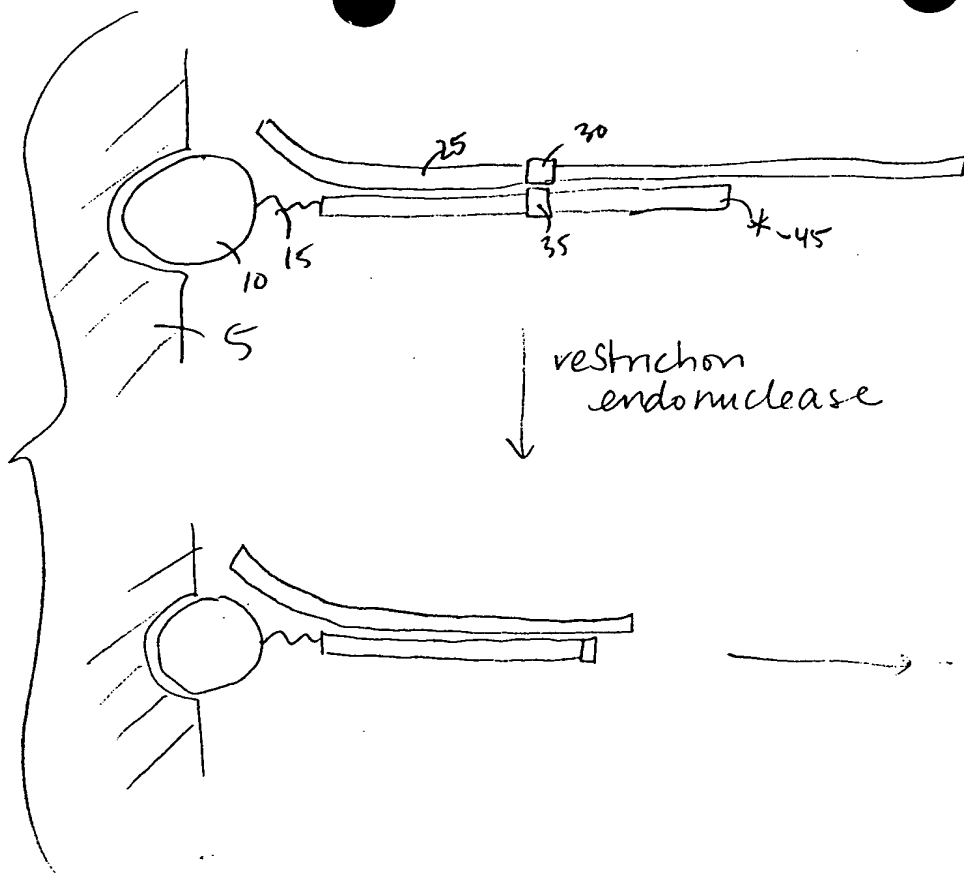


FIGURE 11

000240" E66E5560

A



B

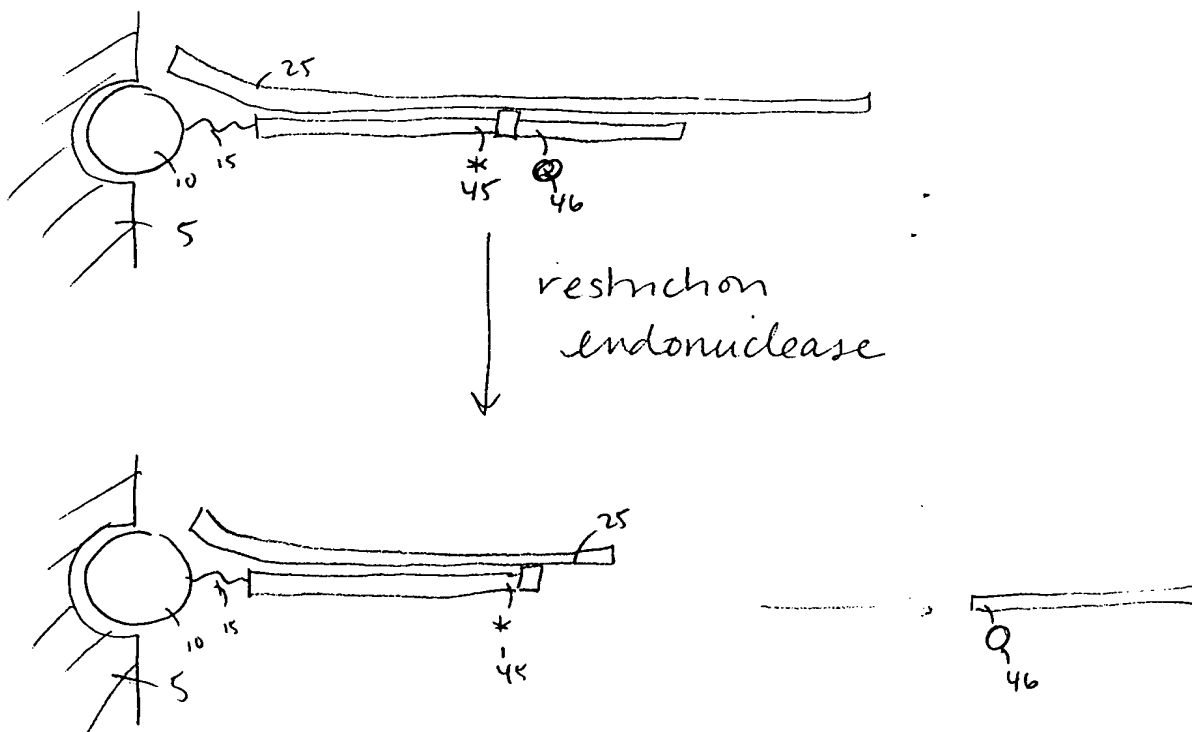
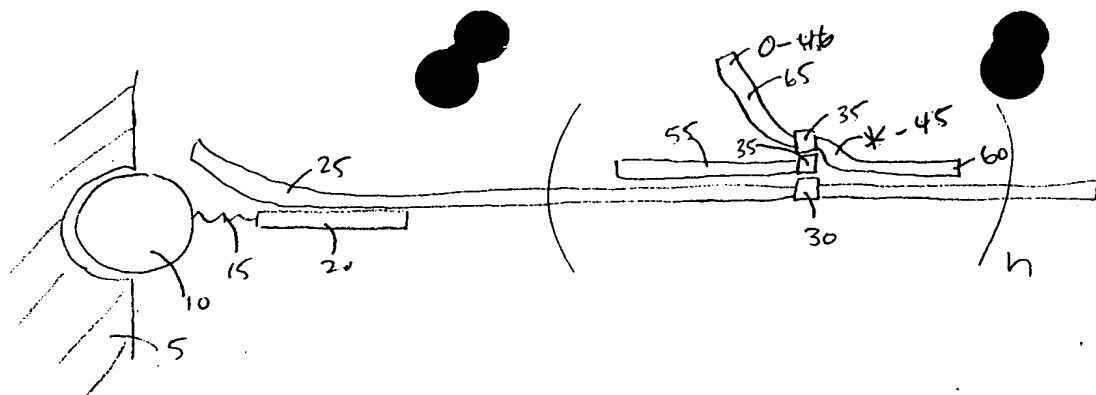
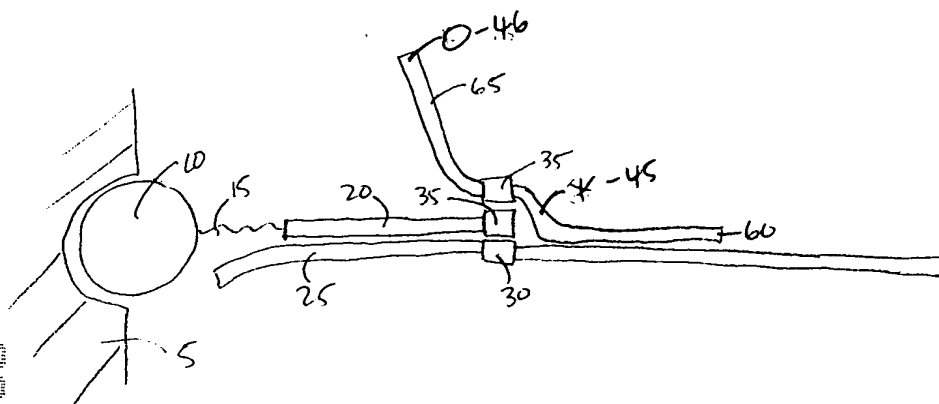


FIGURE 12

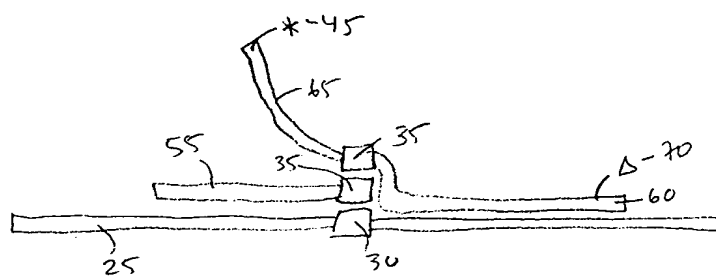
000240" E66E5560



A

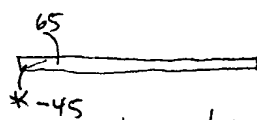


B



C

enzyme



optional remove uncleaved signal
add to array probe,

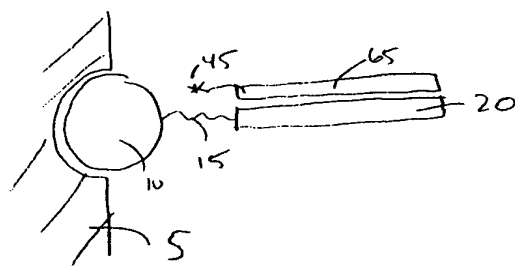
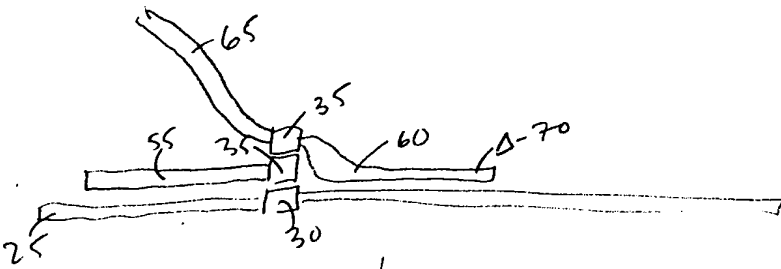
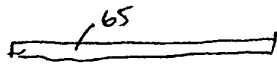


FIGURE 13 (cont)

000240" 26625560



enzyme



optional removal of
unreacted primers,
optional ligase

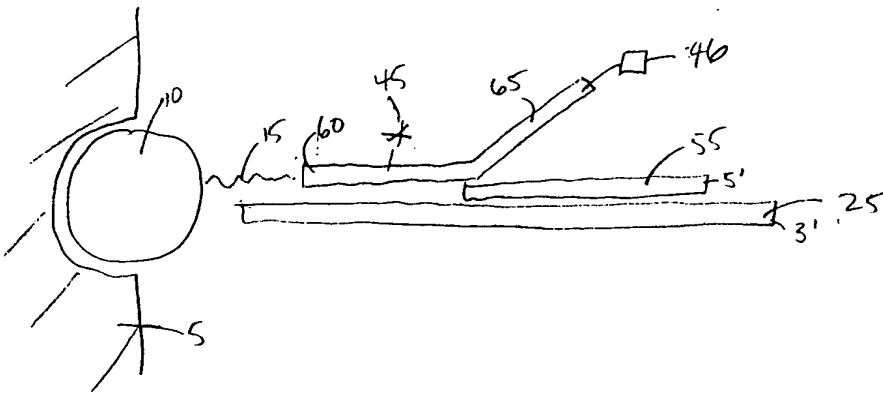
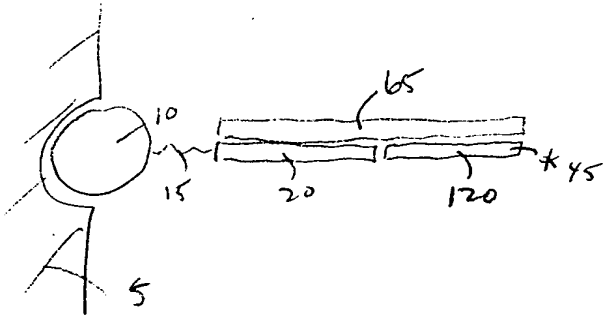
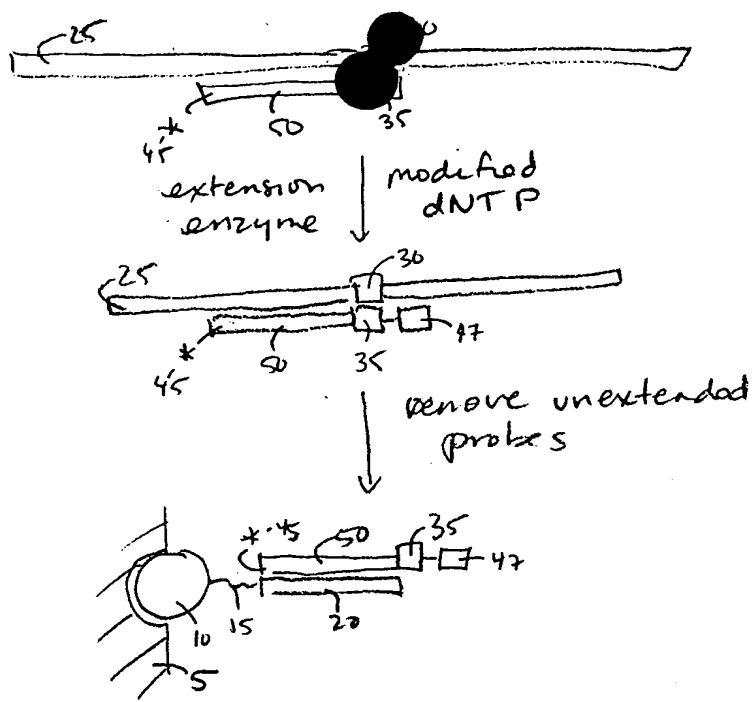
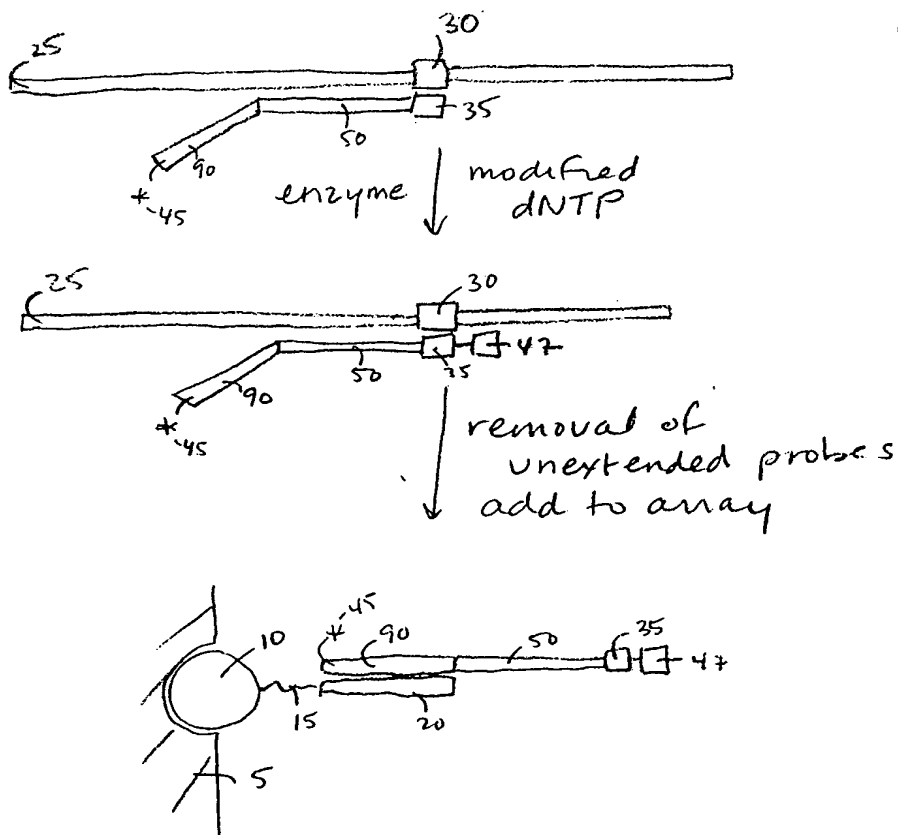


FIGURE 13

000240" E66E5560



A



B

FIGURE 14 (cont)

000240" E66E5560

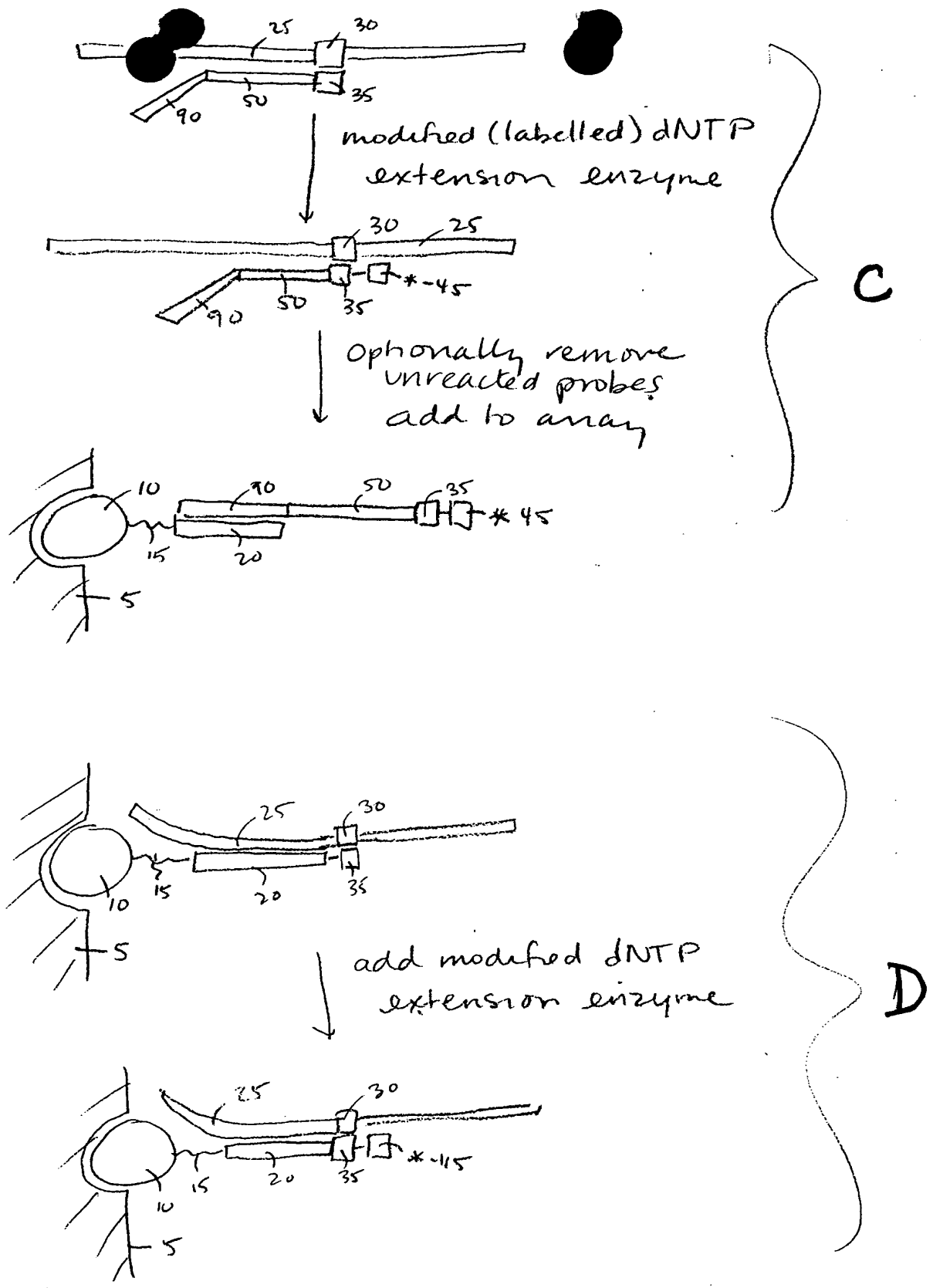
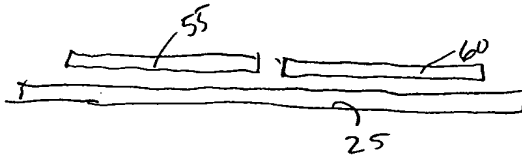
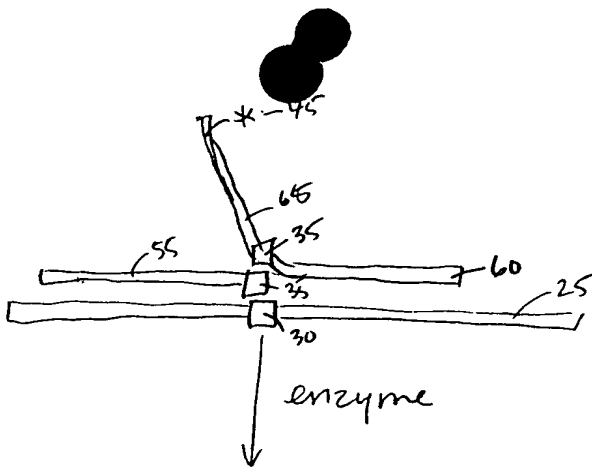
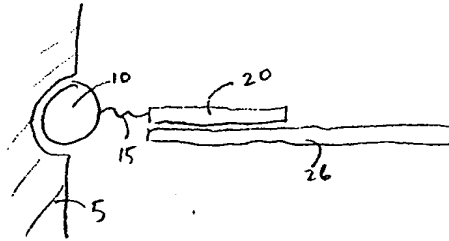


FIGURE 14

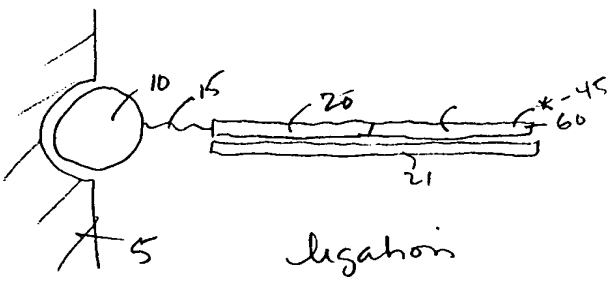
000240" 2665560



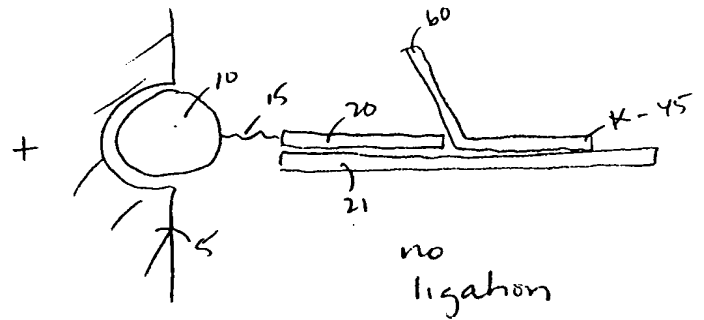
+



+
ligase

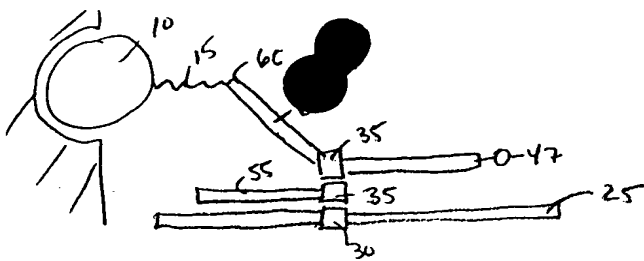


ligation

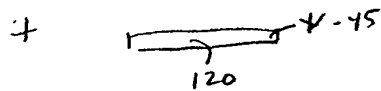
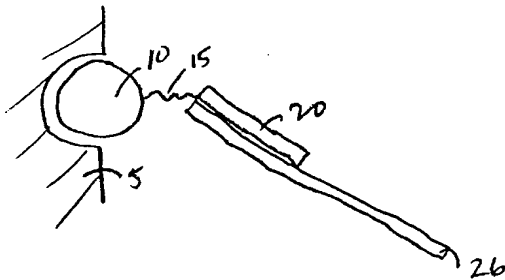


no
ligation

FIGURE 15A



↓ cleavage enzyme
target template



↓ ligation

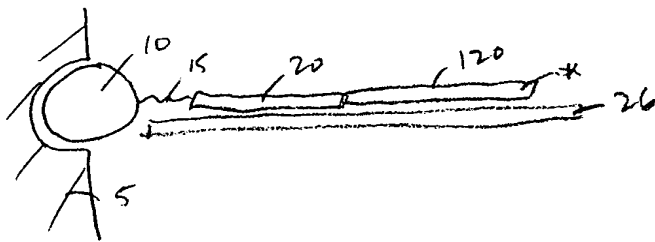


FIGURE 15B

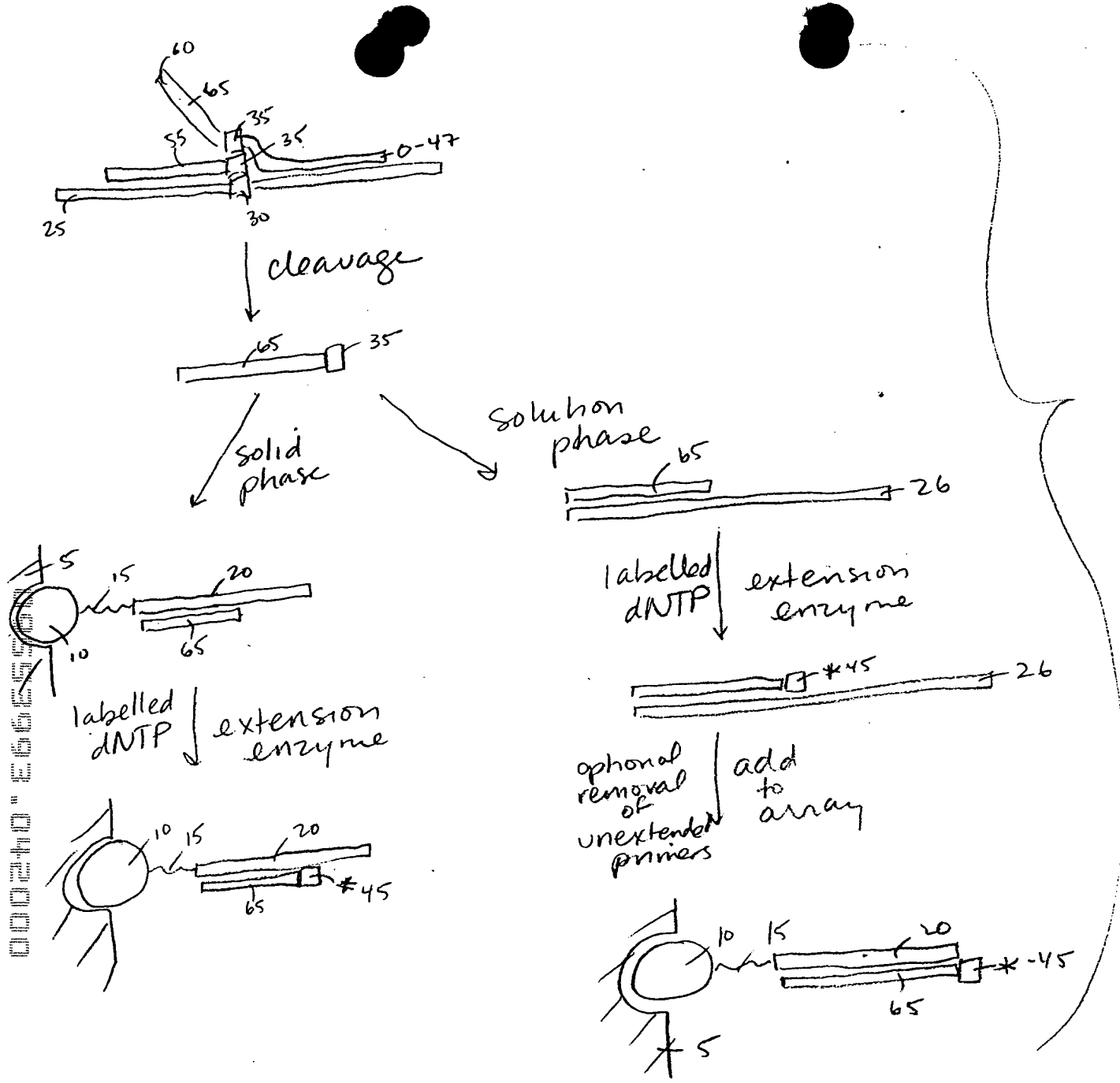


FIGURE 16A

000240" E66E560

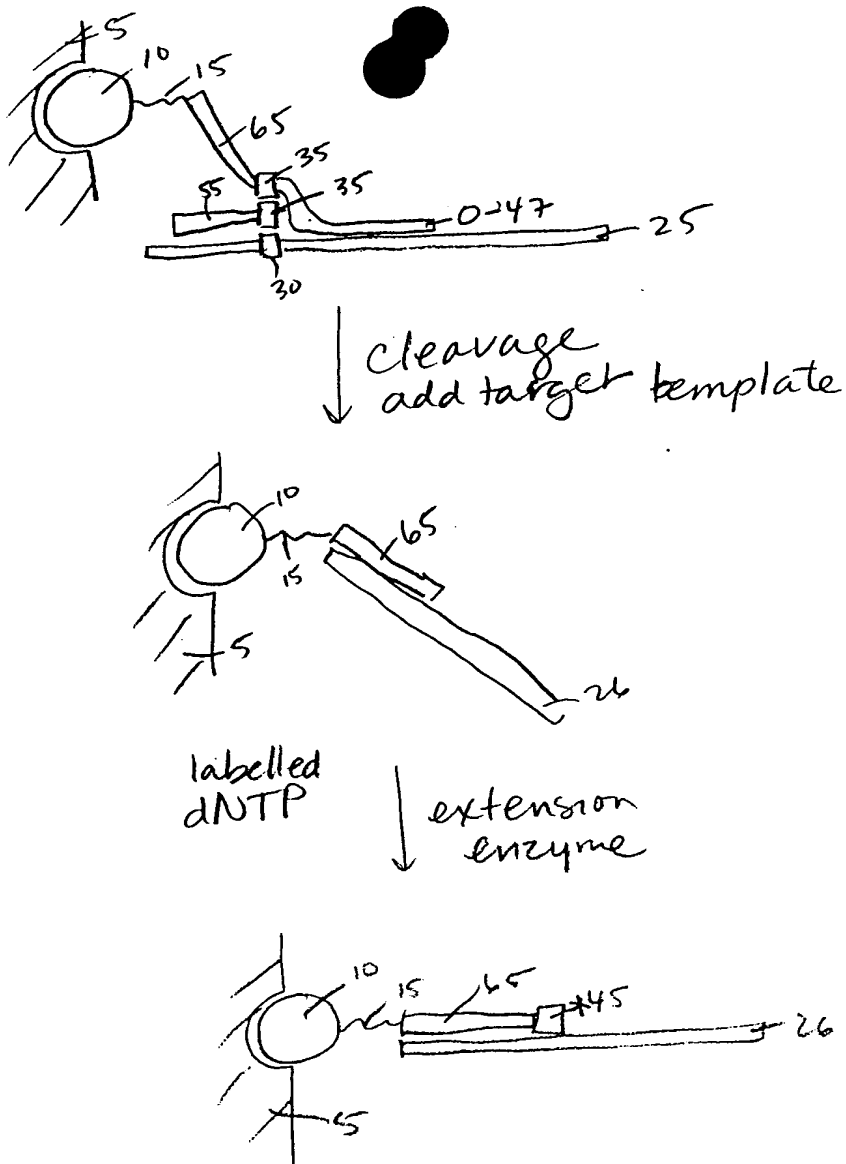
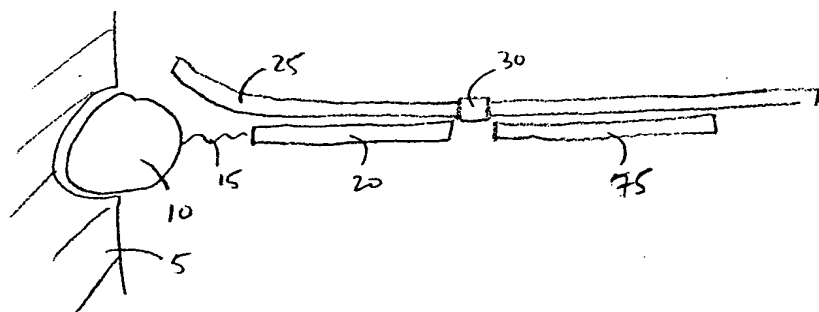
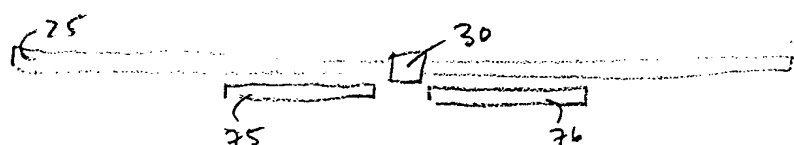


FIGURE 16 B

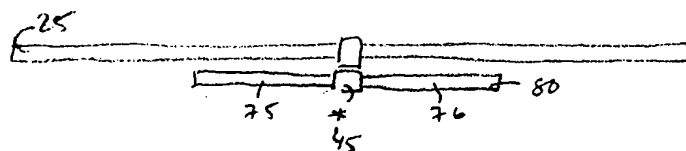
A



B



labeled dNTP
extension enzyme
ligase



optional
removal of
unextended
primers

denature
add to array

